

## **Focus Area 16: Maternal, Infant, and Child Health**

**Objective 16-5a** targets the reduction in maternal complications during hospitalized labor and delivery to a rate of 24.0 per 100 deliveries.

Hospital discharge records with a complication of labor and delivery code in any diagnostic field indicate a non-significant decline from 15.5 per 100 deliveries (percent) in 2000 to 15.3 percent in 2005 (Figure 16-5a, Table 16-5a). The most frequently listed principal diagnosis was hypertension (ICD-9-CM code 642), followed by other current conditions complicating pregnancy, childbirth, or the puerperium (ICD-9-CM codes 648.0 [diabetes mellitus], 648.5 [congenital cardiovascular disorders], 648.6 [other cardiovascular diseases], and 648.8 [abnormal glucose tolerance]), and by delivery trauma codes 664 [trauma to perineum and vulva during delivery] and 665 [other obstetrical trauma]. California's rates of maternal complications during hospitalized labor and delivery were significantly lower than the target established in HP2010, and this objective is being achieved.

Data by race and ethnicity show that the highest rates of hospitalized labor and delivery complications were found for Blacks/African Americans (16.7 percent in 2005), followed by Asians/Pacific Islanders (significant decline from 17.1 percent in 2000 to 16.4 percent in 2005), Others/Unknowns (significant increase from 15.3 percent in 2000 to 16.3 percent in 2005), American Indians/Alaska Natives (15.5 percent in 2005), Whites (15.0 percent in 2005) and Hispanics/Latinos (15.0 percent in 2005). This HP2010 objective is being achieved for females of all racial and ethnic populations hospitalized for labor and delivery.

Examined by age of mother, labor and delivery complication rates were highest for females under 15 years of age (18.3 percent in 2005) followed by females aged 15-19 years (17.7 percent in 2005). The HP2010 objective is being achieved for females of all age groups hospitalized for labor and delivery.

For more information on maternal complications of labor and delivery in California, visit the Maternal and Child Health Branch Web site at:

<http://www.mch.dhs.ca.gov/>

For more information on Healthy People 2010 objective 16-5a please visit:

[http://www.healthypeople.gov/Document/HTML/Volume2/16MICH.htm#\\_Toc494699661](http://www.healthypeople.gov/Document/HTML/Volume2/16MICH.htm#_Toc494699661)

and

<http://www.healthypeople.gov/Document/html/tracking/od16.htm#maternaldeaths>

**Figure 16-5a**  
**Maternal Complications During Hospitalized Labor and Delivery**  
**California, 2000-2005**

Healthy People 2010 objective = 24.0

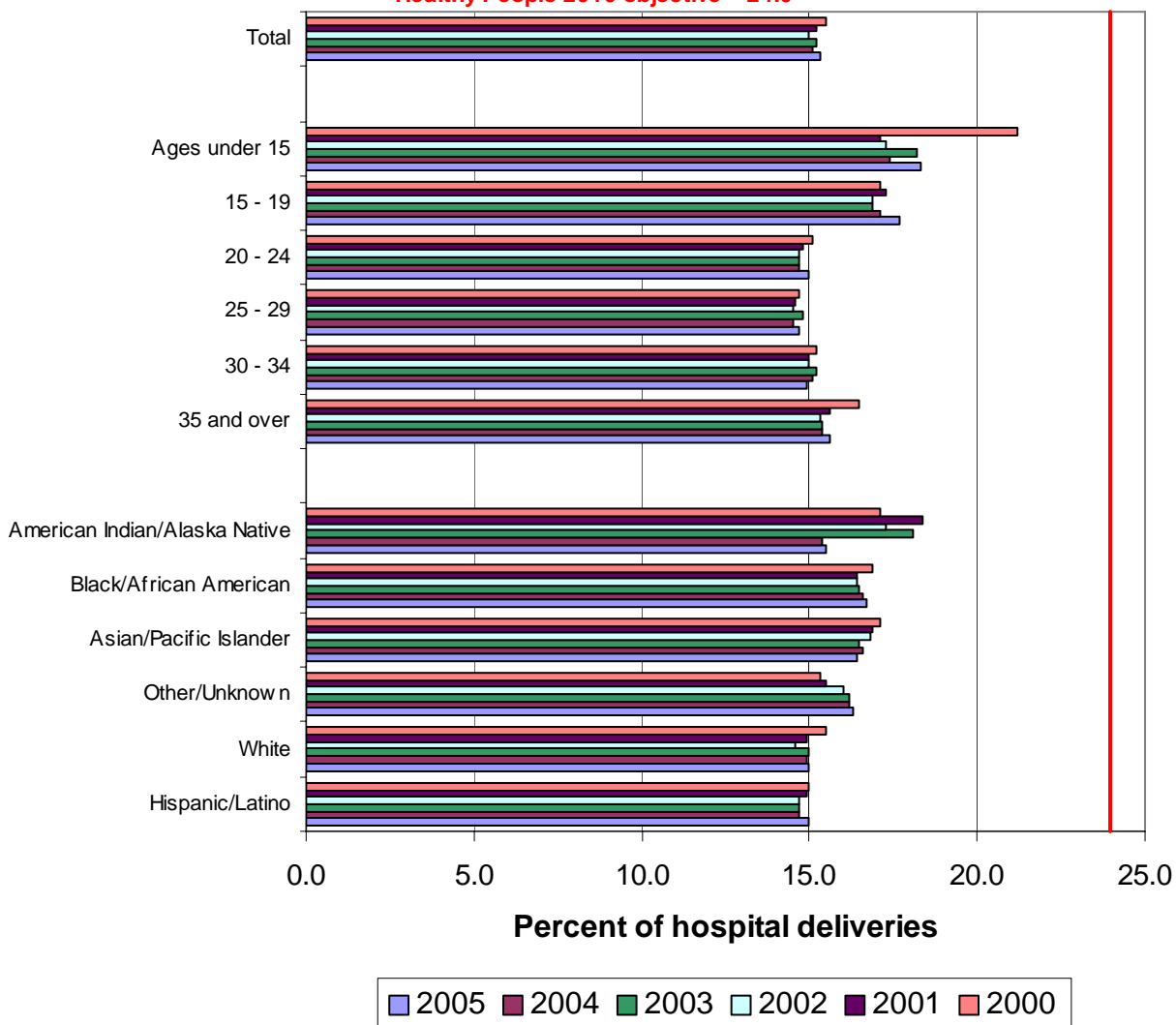


Table 16-5a: Maternal Complications During Hospitalized Labor and Delivery, California 2000-2005

Objective 16-5a	2000			Lower Upper		2001			Lower Upper	
	Comps <sup>1</sup>	Deliveries <sup>2</sup>	Rate <sup>3</sup>	C.I.	C.I.	Comps <sup>1</sup>	Deliveries <sup>2</sup>	Rate <sup>3</sup>	C.I.	C.I.
<b>Healthy People 2010 Target</b>	<b>24.0</b>					<b>24.0</b>				
<b>Statewide Total</b>	79,516	513,506	15.5	15.4	15.6	77,225	508,211	15.2	15.1	15.3
<b>Race-Ethnicity of Mother</b>										
African American/Black	5,077	30,107	16.9	16.4	17.3	4,739	28,863	16.4	16.0	16.8
American Indian/Alaska Native	204	1,193	17.1	15.0	19.2	254	1,380	18.4	16.4	20.5
Asian/Pacific Islander	8,338	48,759	17.1	16.8	17.4	8,128	48,027	16.9	16.6	17.3
Hispanic/Latino	34,887	232,659	15.0	14.8	15.1	34,861	234,665	14.9	14.7	15.0
White	27,328	176,746	15.5	15.3	15.6	25,562	171,488	14.9	14.7	15.1
Other/Unknown	3,680	24,039	15.3	14.9	15.8	3,680	23,775	15.5	15.0	15.9
<b>Maternal Age Group</b>										
Under 15	192	907	21.2	18.5	23.8	143	835	17.1	14.6	19.7
15 - 19	9,250	54,089	17.1	16.8	17.4	8,921	51,631	17.3	17.0	17.6
20 - 24	17,787	117,880	15.1	14.9	15.3	17,456	118,105	14.8	14.6	15.0
25 - 29	19,918	135,096	14.7	14.6	14.9	19,301	131,856	14.6	14.4	14.8
30 - 34	18,819	123,409	15.2	15.0	15.4	18,528	123,366	15.0	14.8	15.2
35 and over	13,550	82,125	16.5	16.2	16.8	12,876	82,418	15.6	15.4	15.9

Objective 16-5a	2002			Lower Upper		2003			Lower Upper	
	Comps <sup>1</sup>	Deliveries <sup>2</sup>	Rate <sup>3</sup>	C.I.	C.I.	Comps <sup>1</sup>	Deliveries <sup>2</sup>	Rate <sup>3</sup>	C.I.	C.I.
<b>Healthy People 2010 Target</b>	<b>24.0</b>					<b>24.0</b>				
<b>Statewide Total</b>	76,799	510,438	15.0	14.9	15.1	79,142	521,682	15.2	15.1	15.3
<b>Race-Ethnicity of Mother</b>										
African American/Black	4,559	27,838	16.4	15.9	16.8	4,535	27,484	16.5	16.1	16.9
American Indian/Alaska Native	205	1,186	17.3	15.1	19.4	239	1,320	18.1	16.0	20.2
Asian/Pacific Islander	8,425	50,040	16.8	16.5	17.2	8,631	52,212	16.5	16.2	16.8
Hispanic/Latino	34,773	236,596	14.7	14.6	14.8	35,755	242,894	14.7	14.6	14.9
White	24,967	170,654	14.6	14.5	14.8	26,157	174,080	15.0	14.9	15.2
Other/Unknown	3,866	24,112	16.0	15.6	16.5	3,815	23,589	16.2	15.7	16.6
<b>Maternal Age Group</b>										
Under 15	148	855	17.3	14.8	19.8	132	724	18.2	15.4	21.0
15 - 19	8,288	48,943	16.9	16.6	17.3	8,161	48,216	16.9	16.6	17.3
20 - 24	17,409	118,338	14.7	14.5	14.9	17,527	118,980	14.7	14.5	14.9
25 - 29	19,261	132,546	14.5	14.3	14.7	20,065	135,855	14.8	14.6	15.0
30 - 34	18,835	125,615	15.0	14.8	15.2	19,743	130,120	15.2	15.0	15.4
35 and over	12,858	84,141	15.3	15.0	15.5	13,514	87,787	15.4	15.2	15.6

Objective 16-5a	2004			Lower Upper		2005			Lower Upper	
	Comps <sup>1</sup>	Deliveries <sup>2</sup>	Rate <sup>3</sup>	C.I.	C.I.	Comps <sup>1</sup>	Deliveries <sup>2</sup>	Rate <sup>3</sup>	C.I.	C.I.
<b>Healthy People 2010 Target</b>	<b>24.0</b>					<b>24.0</b>				
<b>Statewide Total</b>	79,306	525,625	15.1	15.0	15.2	80,796	529,521	15.3	15.2	15.4
<b>Race-Ethnicity of Mother</b>										
African American/Black	4,546	27,462	16.6	16.1	17.0	4,615	27,712	16.7	16.2	17.1
American Indian/Alaska Native	223	1,449	15.4	13.5	17.2	215	1,385	15.5	13.4	17.6
Asian/Pacific Islander	8,827	53,317	16.6	16.2	16.9	8,599	52,568	16.4	16.0	16.7
Hispanic/Latino	36,632	249,692	14.7	14.5	14.8	38,267	255,136	15.0	14.8	15.1
White	25,873	173,948	14.9	14.7	15.0	25,588	171,007	15.0	14.8	15.1
Other/Unknown	3,200	19,746	16.2	15.7	16.7	3,510	21,596	16.3	15.7	16.8
<b>Maternal Age Group</b>										
Under 15	121	695	17.4	14.6	20.2	139	758	18.3	15.3	21.4
15 - 19	8,327	48,729	17.1	16.8	17.4	8,676	49,046	17.7	17.3	18.1
20 - 24	17,584	119,296	14.7	14.5	14.9	18,152	120,835	15.0	14.8	15.2
25 - 29	19,785	136,802	14.5	14.3	14.6	20,393	138,501	14.7	14.5	14.9
30 - 34	19,638	130,262	15.1	14.9	15.3	19,268	129,275	14.9	14.7	15.1
35 and over	13,851	89,841	15.4	15.2	15.7	14,168	91,106	15.6	15.3	15.8

SOURCE: Office of Statewide Health Planning and Development, Patient Discharge Data Files, 2000-2005.

NOTES: <sup>1</sup> Labor and delivery complications defined by ICD-9-CM codes 641.0-641.9, 642.0-642.7, 642.9, 643.2, 646.2, 646.6-646.7, 648.0, 648.5-648.6, 648.8, 658.4, 659.2, 659.3, 664.2-664.3, 664.5, 665, 666, 668, 669.0-669.4, 670, 671.3-671.5, 672, 673, 674.0-674.3, 674.8-674.9 in any diagnostic field.

<sup>2</sup> Hospital deliveries only; a "delivery" is defined by DRG codes 370-375.

<sup>3</sup> Rate per 100 deliveries (percent).